

Amendments to the Claims

Claims 1-26 (canceled).

27. (currently amended) An apparatus for producing oxidic nanocrystals which comprises at least one, the apparatus comprising: a first vaporizer for containing a first metalorganic complex or a first volatile inorganic compound, the first vaporizer being connected to a first carrier gas stream to produce a first reactant gas stream, a second vaporizer containing a second metalorganic complex or a second volatile inorganic compound, the second vaporizer being connected to a second carrier gas source stream to produce a second reactant gas stream, the first and second reactant gas streams being connected to a first feed line, and a flow reactor comprising a tube having a cylindrical heating zone disposed inside, the first feed line entering the reactor through a first opening and extending into the cylindrical heating zone, the reactor further being connected to a reaction gas source, reaction gas from the reaction gas source entering the reactor through a second feed line through a second opening, the second feed line being connected to a side of the cylindrical heating zone, the cylindrical heating zone having a baffle at a downstream end of the heating zone, the baffle extending outwardly from the downstream end and preventing convection in a direction counter to reactant gas flow into the reactor, the apparatus further comprising an adsorption trap connected downstream of the reactor and a vacuum pump connected downstream of the adsorption trap.

Claims 28-32 (canceled).